

Customer Number: 000959

Attorney's  
Docket  
Number MEI-008

Declaration, Petition and Power of Attorney For Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

NOVEL CRSP PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR  
the specification of which

(check one)

   is attached hereto.

X was filed on January 20, 1998 as

Application Serial No. 09/009,802

and was amended on \_\_\_\_\_  
(if applicable)

I do not know and do not believe that the subject matter of this application was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the date of this application, and that said subject matter has not been patented or made the subject of an issued inventor's certificate in any country foreign to the United States on an application filed by me or my legal representatives or assigns more than twelve months prior to the date of this application; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by me or my representatives or assigns in any country foreign to the United States, except those identified below, and that I have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

## PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Check one:

☒ no such applications have been filed.

☐ such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

Country	Application Number	Date of Filing (month,day,year)	Priority Claimed Under 35 USC 119
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS  
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION


CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

60/071589  
(Application Serial No.)

January 15, 1998  
(Filing Date)

(Application Serial No.)

(Filing Date)



<u>08/842,898</u> (Application Serial No.)	<u>April 17, 1997</u> (Filing Date)	<u>pending</u> (Status) (patented,pending,aband.)
<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented,pending,aband.)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents prosecute this application and transact all business in the Patent and Trademark Office connected therewith

W. Hugo Liepmann	Reg. No. 20,407	Jeremiah Lynch	Reg. No. 17,425
James E. Cockfield	Reg. No. 19,162	Lawrence E. Monks	Reg. No. 34,224
Thomas V. Smurzynski	Reg. No. 24,798	David A. Lane	Reg. No. 39,261
Ralph A. Loren	Reg. No. 29,325	Catherine J. Kara	Reg. No. 41,106
Thomas J. Engellenner	Reg. No. 28,711	Mark D. Russett	Reg. No. 41,281
Giulio A. DeConti, Jr.	Reg. No. 31,503	Scott D. Rothenberger	Reg. No. 41,277
Ann Lamport Hammitte	Reg. No. 34,858	Thomas P. Grodt	Reg. No. 41,045
Paul Louis Myers	Reg. No. 35,965	Linda M. Chinn	Reg. No. 31,240
Elizabeth A. Hanley	Reg. No. 33,505	Kevin J. Canning	Reg. No. 35,470
Amy E. Mandragouras	Reg. No. 36,207	Ivana Maravic-Magovcevic	Reg. No. P43,338
Michael I. Falkoff	Reg. No. 30,833	Faustino A. Lichauco	Reg. No. P41,942
John V. Bianco	Reg. No. 36,748	C. Eric Schulman	Reg. No. P43,350
Anthony A. Laurentano	Reg. No. 38,220	Jeanne M. DiGiorgio	Reg. No. P41,710
Jane E. Remillard	Reg. No. 38,872	Megan E. Williams	Reg. No. P43,270
Mark A. Kurisko	Reg. No. 38,944		

all of: LAHIVE & COCKFIELD, LLP, 28 State Street, Boston, MA 02109

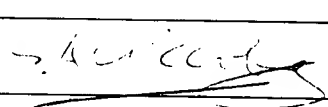
and to: Mark F. Boshar Reg. No. 35,456 Jean M. Silveri Reg. No. 39,030  
Robert A. Millman Reg. No. 36,217 Theodore Allen Reg. No. P41,578  
of: Millennium Pharmaceuticals, Inc., 238 Main Street, Cambridge, MA 02142-1017

Send Correspondence to Amy E. Mandragouras at **Customer Number: 000959** whose address is:  
Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109

Direct Telephone Calls to: (name and telephone number)  
Amy E. Mandragouras, (617) 227-7400

Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Sean McCarthy	
Inventor's signature 	Date 3/13/93
Residence 145 Pineknay Street, #103, Boston, MA 02114	
Citizenship	
Post Office Address (if different)	

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

**PATENTS ONLY**

Tab settings ⇨⇨⇨▽

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Sean A. McCarthy, Ph.D.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 2. Name and address of receiving party(ies)

Name: Millennium Biotherapeutics Inc.

Internal Address: \_\_\_\_\_

Street Address: 620 Memorial DriveCity: Cambridge State: MA ZIP: 02139

## 3. Nature of conveyance

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Execution Date: March 31, 1998Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/009,802

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Amy E. MandragourasInternal Address: Lahive & Cockfield, LLPStreet Address: 28 State StreetCity: Boston State: MA ZIP: 02109

## 6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

12-0080

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Amy E. Mandragouras

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document:

2Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT

I, Sean McCarthy, of 145 Pickney Street, #103, Boston, MA 02114, in consideration of One Dollar and other valuable consideration paid to me by

MILLENNIUM BIOTHERAPEUTICS, INC.

a corporation of Delaware, having its principal place of business at 620 Memorial Drive, Cambridge, MA 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

MILLENNIUM BIOTHERAPEUTICS, INC.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

NOVEL CRSP PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR  
described in an application

\_\_\_\_\_ executed by me of even date herewith and about to be filed

X Serial No. 09/009,802, filed on January 20, 1998

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this \_\_\_\_\_ day of March, 1998.

By: \_\_\_\_\_  
Sean McCarthy

State of Massachusetts )  
  )ss  
County of Middlesex )

Then personally appeared the above named Sean McCarthy and acknowledged the foregoing instrument to be his ~~own~~ free act and deed, before me, this 31st day of March, 1998.

\_\_\_\_\_  
Notary Public Simonne L. Corriveau

My commission expires: 7/2/99